3Com® OfficeConnect® Wireless 108Mbps 11g PoE Access Point

DATA SHEET

- PoE eliminates installation problems with hard to wire or reach locations, supplying power over Category 5 or 6 data cables
- Support for multiple SSIDs, VLANs, WDS, and Rogue AP detection brings enterprise class features to small and medium wireless networks
- 802.11g standard significantly boots wireless performance, supporting speeds up to 108 Mbps in SuperG mode
- 802.1X, AES and WPA provide the latest, toughest, standards-based security

Key Benefits

Wireless Freedom and Versatility

Take advantage of the freedom of high-speed networking without wires with the Wi-Fi-certified 3Com® OfficeConnect® Wireless 108Mbps 11g PoE Access Point. WLANs are an attractive solution for cost-effectively and securely extending mobile access to wired network resources or creating full-featured networks in small and medium businesses, remote sites, or temporary locations. Each access point (AP) supports up to 64 wireless users, so there is plenty of room for growth.

Flexible Installation with Power over Ethernet (PoE)

PoE support makes it easier than ever to overcome installation problems by eliminating the need for an AC power plug at each AP. The 3Com Baseline Switch 2226-PWR Plus or other 802.3af-compliant PoE products supply both power and data to the access points through Category 5 or 6 Ethernet cable, giving you flexible installation options in hard to wire or reach locations.

Strong Encryption, Authentication, and Authorization

3Com delivers enterprise-class security features to small and medium businesses. To shield wireless communications at the source, WPA AES and TKIP encryption provide the latest, toughest standards-based security; WEP encryption supports legacy 802.11b wireless clients. For additional protection, the access point supports 802.1X and MAC address access control, authentication, and authorization through backend RADIUS servers.

Flexible Security and Access Control

You can configure and store up to four SSIDs with different security profiles for groups of users. 802.1Q-compliant VLAN support works with the multiple SSID feature to control access to network resources and segment user traffic.

WDS Bridging Capability Solves Complex Connectivity Problems

The Wireless Distribution System feature solves complex wireless connectivity problems. The access point supports both point-to-point and point-to-multipoint WDS links as well as repeater and client bridge modes for flexible network deployment.

Enterprise-Class Features for Small, Mid-Sized Businesses

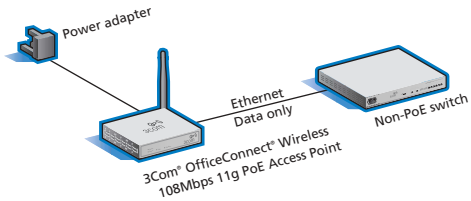
3Com delivers superior business value by offering enterprise-class solutions without the complexity. 3Com also backs each product with global sales, service, and support along with technology, financial, and operational strength.

Features

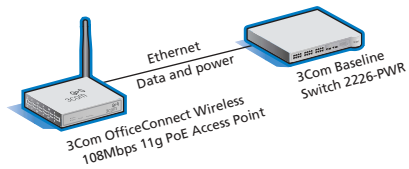
	Description
FLEXIBLE HIGH-SPEED CONNECTIVITY	
High-speed access and wide coverage	802.11g standard supports speeds up to 108 Mbps in SuperG mode.
Flexible network growth	Supports up to 64 users per AP.
Wi-Fi certified 802.11g and WPA compatibility	Helps ensure interoperability with Wi-Fi-certified products from other vendors; supports both 11g and 11b users.
ROBUST SECURITY FEATURES	
Encryption: WPA, AES, TKIP and WEP	Toughest industry-standard algorithms help keep wireless transmissions private.
Multiple security profiles	Store up to eight different security settings; up to four security profiles can run at any time.
Multiple SSID support with SSID isolation	SSIDs can be bridged together or isolated.
Access control	Screens device MAC addresses to ensure that only trusted clients gain access to the WLAN.
802.1Q VLAN support	Groups users according to data or traffic requirements to segment traffic flow based on business priorities.
RADIUS server MAC-based and 802.1X AAA support	Centralizes wireless security through existing network RADIUS servers.
Rogue AP detection and logging	Identifies and logs unauthorized, potentially harmful APs for remedial action.
INSTALLATION AND MANAGEMENT CONVENIENCE	
Simple installation	No need to drill holes or run Ethernet cabling to set up your network.
WDS bridge and repeater configuration	APs function as bridges supporting point-to-point or multipoint modes; repeater mode extends wireless coverage.
PoE support	Expands installation options by eliminating the need for power adapters and AC outlets for APs.
Universal access method (UAM) support	Lets you deploy the AP in hot spots or other sites where usage is tracked for billing purposes.
Access Point Discovery program	Automatically discovers AP devices to simplify configuration and management.
SNMP support	Enables the AP to be centrally managed by popular standards-based network management applications.
Auto configuration	Copies settings from compatible APs on the WLAN, simplifying and speeding setup.
Syslog support	Enables the AP to be centrally monitored by sending data to the network Syslog server.
Web browser-based administration	Familiar browser interface lets you configure and manage APs from anywhere on the network.
Auto firmware update	Automatically checks an FTP server for available firmware updates.

PoE Support

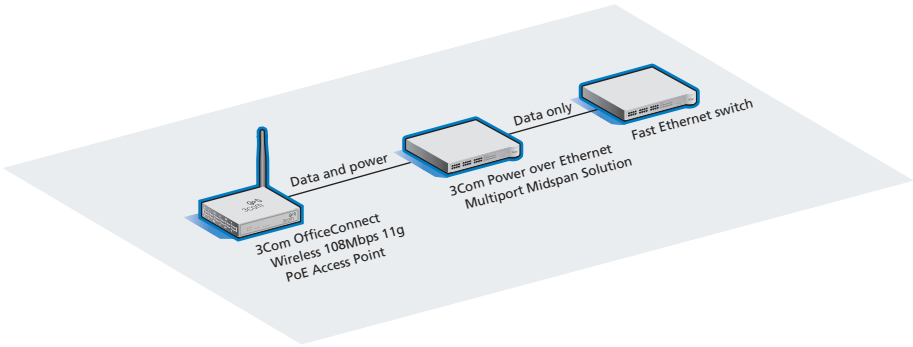
Choose from several power options to match your installation needs. First, the PoE access point can be powered with the supplied power adapter.



You can also power the access point using an 802.3af-compliant PoE switch. The switch provides both data and power through the Ethernet cable.

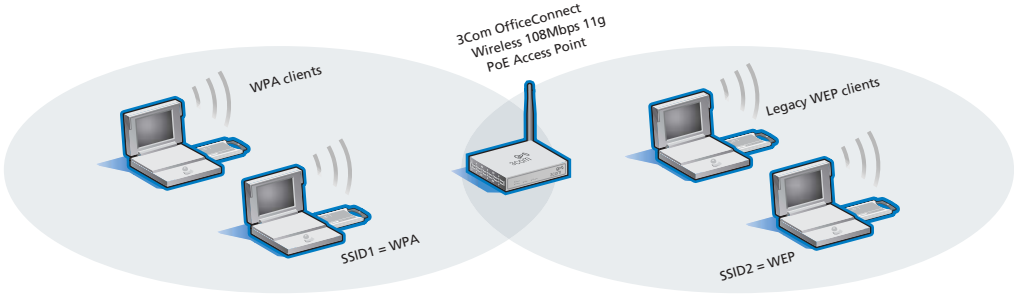


The midspan solution distributes power to the PoE access point over existing switch connections, seamlessly extending network connectivity into hard to wire locations.



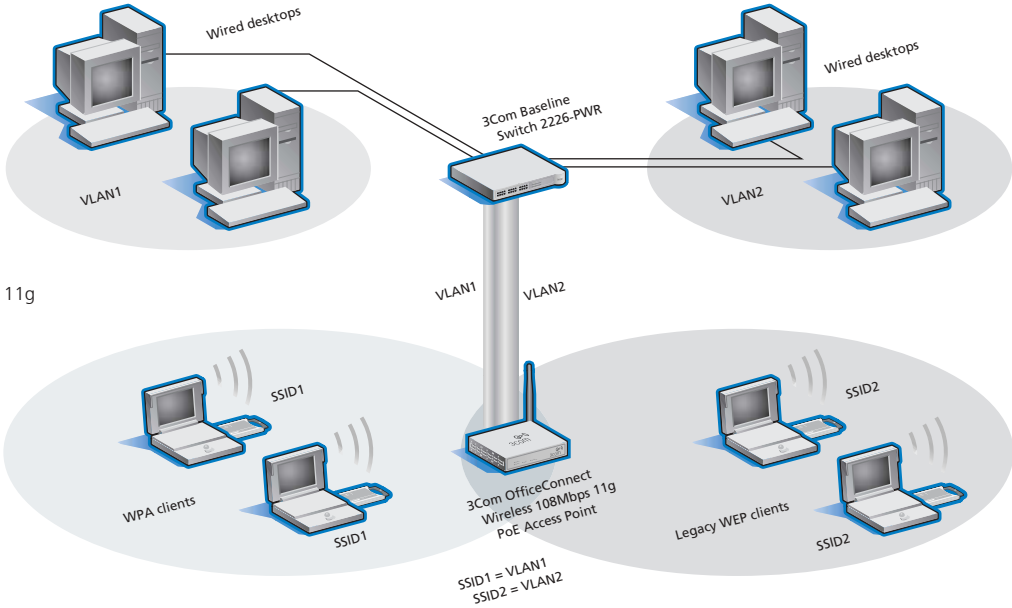
Multiple SSID Support

Multiple SSID support enables many flexible configurations, including supporting multiple client security schemes simultaneously. You no longer need to dumb down your wireless network to support a few legacy WEP devices.



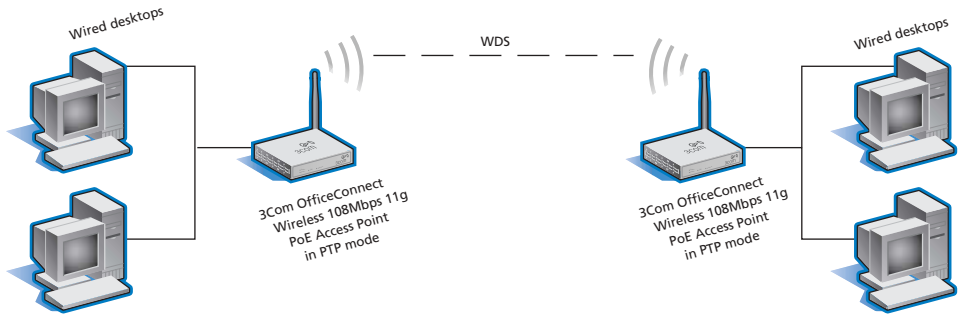
Multiple SSID and VLAN Support

With the 3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point, a single Ethernet link supports multiple encrypted VLAN traffic tunnels.



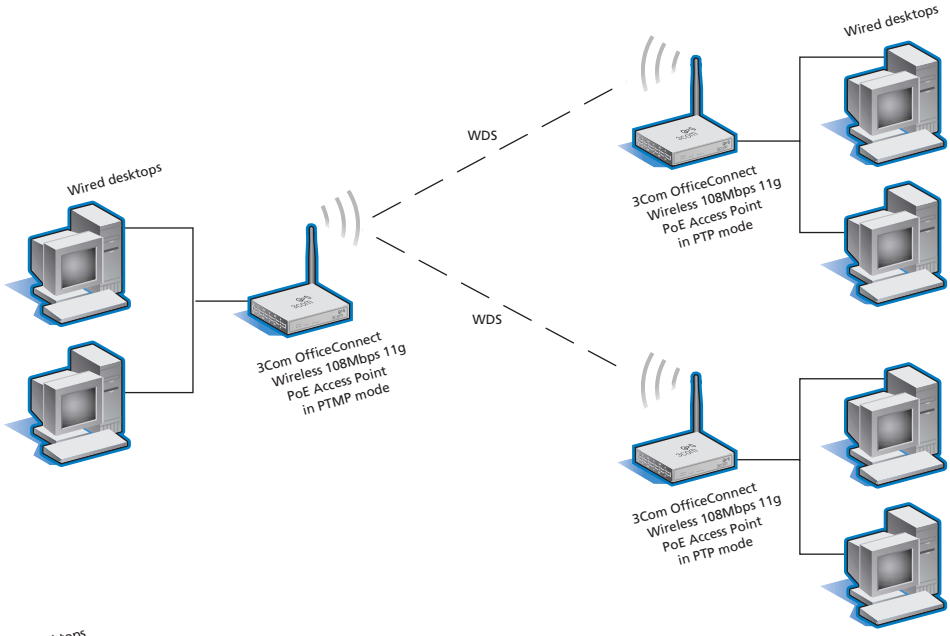
Point-to-Point WDS Link

With the 3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point, you can connect wired LANs with a wireless WDS link. The APs act as wireless bridges, forwarding traffic between LANs.


Wired desktops
WDS
Wired desktops
3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point in PTP mode
3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point in PTP mode

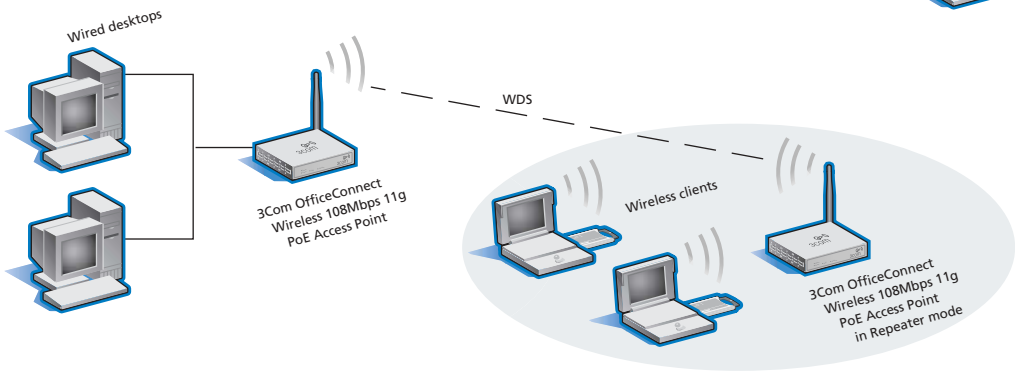
Point-to-Multipoint WDS Link

The 3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point can function as a wireless bridge in either point-to-point (PTP) or point-to-multipoint (PTMP) modes for installation flexibility.


Wired desktops
WDS
WDS
Wired desktops
3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point in PTMP mode
3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point in PTP mode
3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point in PTP mode

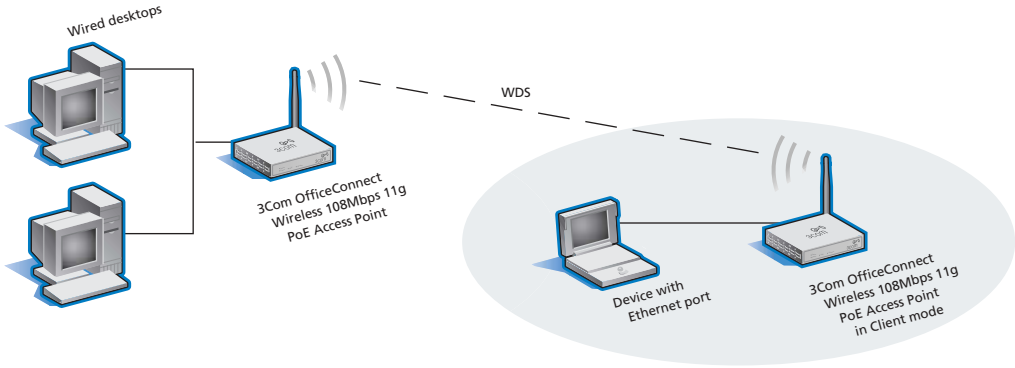
Repeater WDS Link

The 3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point can also extend the range of WLANs by acting as a wireless repeater, forwarding traffic between associated wireless workstations and another AP connected to the wired LAN.


Wired desktops
WDS
3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point
Wireless clients
3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point in Repeater mode

Client WDS Link

The 3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point can transform an Ethernet device into a wireless device to expand connectivity options.


Wired desktops
WDS
3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point
Device with Ethernet port
3Com OfficeConnect Wireless 108Mbps 11g PoE Access Point in Client mode

Specifications

Minimum System Requirements
Computer with an Ethernet 10BASE-T, 10/100, or 10/100/1000 interface configured for Internet communication

Operating system that supports an Ethernet connection with an IP stack (Installation CD requires Windows 98, Windows ME, Windows XP, or Windows 2000)

PCs and laptops require 802.11g or 802.11b adapter cards for wireless access

Interfaces
RJ-45, 10BASE-T/100BASE-TX Ethernet port with 802.3af PoE support

DB-9 female RS-232 serial console port

802.11b/g Wi-Fi compliant

Wireless Data Rates
802.11g: 108, 54, 48, 36, 24, 18, 12, 9 & 6 Mbps
802.11b: 11, 5.5, 2 & 1 Mbps

Frequency Band
802.11b/g: 2.4-2.4835 GHz

Wireless Transmit Power
18 dBM

Users Supported
Up to 64 simultaneous 802.11b/g wireless users

1024 total MAC addresses supported

Operating Range
Indoor maximum: 100 meters (328 feet)

Outdoor maximum: 457 meters (1,499 feet)

Operating Channels:
802.11g: 11 for North America, 13 for Europe (ETSI), 14 for Japan
802.11b: 11 for North America, 13 for Europe (ETSI), 14 for Japan

Modulation Technique
DSSS (Direct Sequence Spread Spectrum)
OFDM (Orthogonal Frequency Division Multiplexing)

Media Access Protocol
CSMA/CA

PoE Power Consumption
4.67 Watts

Receive Sensitivity
802.11g:
108 Mbps: - 68 dBm

54 Mbps: - 71.5 dBm

48 Mbps: - 73 dBm

36 Mbps: - 78 dBm

24 Mbps: - 82 dBm

18 Mbps: - 83 dBm

12 Mbps: - 88 dBm

11 Mbps: - 86 dBm

9 Mbps: - 88 dBm

6 Mbps: - 90dBm

802.11b:
11 Mbps: - 85 dBm

5.5 Mbps: - 89 dBm

2 Mbps: - 90 dBm

1 Mbps : - 93 dBm

Standards Conformance
Wi-Fi certified, IEEE 802.11b, IEEE 802.11g, IEEE 802.3, IEEE 802.3af, IEEE 802.1X, IEEE 802.1Q, AES, WPA, WEP, HTTP, SNMP

Antenna
One removable 2dB Gain antenna with RP-SMA connector

Security
WPA AES and TKIP encryption; 64/128/152-bit WEP encryption; 802.1X with EAP-TLS, EAP-TTLS, and PEAP; WPA-PSK authentication; MAC address authentication and filtering; 802.1Q VLAN; multiple SSID; RADIUS client authentication, authorization, and accounting

Networking Protocols
TCP/IP, Bridging Protocol, DHCP, HTTP, FTP, NetBIOS, WINS

Performance
Dynamic rate shifting

Packet bursting

Clear channel connect

802.11g SuperG mode

Management
Command line interface (via Telnet or SSH)

HTTP or S-HTTP Web browser interface

SNMP support

Access Point Discovery program

Auto configuration

Syslog support

DHCP client support

Pre-set defaults

Upgradeable firmware

LEDs
Power, LAN Activity, Status, Wireless activity

Power Supply
24 VDC, 300mA

Physical Dimensions
Width: 14.1 cm (5.5 in)

Depth: 10.0 cm (3.9 in)

Height: 2.7 cm (1.0 in)

Weight: 1.0 kg (2.2 lb)

Regulatory/Agency Approvals
Safety:
EN 60950, IEC 60950 Edition 3, UL 60950 3rd edition,/CSA 22.2 60950, European Community CE notice
Emissions:
Canada ICES-003 Class B, FCC Part 15, Class B, EN 55022 Class B, CISPR 22 Class B, CNS 13438 Class A, ETSI EN 301 489-17
Environmental:
EN60060 (IEC68), UL listed-CSA certified

Environmental Operating Ranges
Operating temperature: 0 to 50°C (32 to 122 °F)
Storage temperature: -20 to 70°C (-4 to 158 °F)
Humidity: 0 to 90 percent non-condensing

Package Contents
3Com® OfficeConnect® Wireless 108Mbps 11g PoE Access Point

24-volt power adapter

CD-ROM with Quick Start and User Guide and configuration software

Warranty booklet

Warranty
Three year hardware warranty with advanced hardware replacement and 90 days free technical support. Refer to **www3com.com/warranty** for details.

Ordering Information

PRODUCT DESCRIPTION	3COM SKU
3Com OfficeConnect® Wireless 108Mbps 11g PoE Access Point	3CRGPOE10075*
PoE Switch Options	
3Com Baseline Switch 2226-PWR Plus	3C16490
3Com SuperStack® 3 Switch 4400 PWR	3C17205
PoE Adapter Options	
3Com Power over Ethernet Multiport Midspan Solution	3CNJPSE24
3Com Power over Ethernet Single-Port Midspan Solution	3CNJPSE
Related Products	
3Com OfficeConnect Wireless 108Mbps 11g XJACK® PC Card	3CRXJK10075
3Com OfficeConnect Wireless 54Mbps 11g Compact USB Adapter	3CRUSB10075
3Com OfficeConnect Wireless 11g PC Card	3CRWE154G72
3Com OfficeConnect ADSL Wireless 11g Firewall Router	3CRWDR100A-72
3Com OfficeConnect Wireless 11g Cable/DSL Router	3CRWE554G72T
3Com OfficeConnect Wireless 54Mbps 11g Travel Router	3CRTRV10075
3Com OfficeConnect Wireless 54Mbps 11g Print Server	3CRWPS10075
3Com OfficeConnect Wireless 11a/b/g PC Card	3CRWE154A72
3Com OfficeConnect Wireless 11a/b/g Access Point	3CRWE454A72

*Not approved for sale in all countries – please check with your local reseller or 3Com office for local availability

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